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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/772,394	02/06/2004	Christopher T. Rich	P68779US1 5027 EXAMINER	
136	7590 08/10/2005			
JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W.			HUNNINGS, TRAVIS R	
SUITE 600			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20004			2632	
		•	DATE MAILED: 08/10/2003	DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summers	10/772,394	RICH ET AL.			
Office Action Summary	Examiner	Art Unit			
	Travis R. Hunnings	2632			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status	1				
1)⊠ Responsive to communication(s) filed on <u>06 F</u>	February 2004.				
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims		·			
4) ⊠ Claim(s) <u>1-15</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-4 and 11</u> is/are rejected. 7) ⊠ Claim(s) <u>5-10 and 12-15</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on <u>06 February 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	re: a) \square accepted or b) \square objecte e drawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		,			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		eater Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Regarding claim 2, the phrase "generally" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fry (PCT WO 86/02526) in view of Householder (US Patent 4,953,223).

Regarding claim 1, Fry discloses *Electronic Frequency Modulator* that has the following claimed limitations:

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The claimed at least a first and second ultrasound transmitters is met by the plurality of known transducer heads (page 3, line 38);

The claimed each of said transmitters including a housing having a top, a bottom, a front, and a rear is met by the plurality of transducers as shown in figure 1;

The claimed speaker within each housing for emitting ultrasonic sound waves from said front of said housing, said speaker having a back member is met by the transducers as shown in figure 1 (page 2, lines 9-11 and the table found on pages 2 and 3);

The claimed source of electrical power for each of said speakers is met by the power supply (page 4, line 4);

The claimed base member is met by the plate as seen in figure 1 (page 4, line 2);

The claimed first transmitter being supported by said base member is met by the device as seen in figure 1;

The claimed second transmitter being supported by said first transmitter is met by the device as seen in figure 1.

However, Fry does not specifically disclose the claimed second transmitter being supported by said first transmitter for rotation with respect thereto. Householder discloses *Speaker Mounting System* that teaches a plurality of vertically mounted speakers that can be rotated with respect to one another as seen in figures 1 and 2 (column 5, lines 12-16). Modifying the transducer assembly of Fry to allow the transducers to rotate with respect to one another would give the user a better coverage area and allow the device to be adapted to different environments. Therefore it would

have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by Fry according to the teachings of Householder to modify the device such that the second transducer is able to rotate with respect to the first transducer.

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Regarding claim 2, the examiner takes official notice that it is well known in the art that speakers emit sound waves in a generally cone-like pattern from the front of the speaker.

Regarding claim 3, the claimed first transmitter being supported in a fixed relation by said base is met by the transducers of Fry as shown in figure 1.

Regarding claim 4, the claimed supporting stem carried by said first transmitter and having portions extending below said bottom of said first transmitter housing is met by the support column as seen in figure 1 (page 3, lines 36-39 and page 4, lines 1-3). The claimed socket in said base member and quick connection means non-rotatably securing lower terminal portions of said supporting stem in said socket is met by the conventional stays, plate and support column as seen in figure 1 (page 3, lines 36-39 and page 4, lines 1-3).

Regarding claim 11, the claim is interpreted and rejected as claim 1 stated above.

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Allowable Subject Matter

5. Claims 5-10 and 12-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

limitations of the base claim and any intervening claims.

Cauchy, Self-Powered Insect And Rodent Repellent Device, US Patent 6,301,194;

Wu, Shrew-Expelling Device With Illuminating Function, US Patent Publication 2003/0201874;

Saitoh, *Television Stereophonic Audio System*, US Patent 5,943,430; Michael et al. *Omni-Directional Sound System*, US Patent 3,961,684; Guy, *Multi-Directional Speaker System*, US Patent 4,757,544.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Travis R. Hunnings whose telephone number is (571) 272-3118. The examiner can normally be reached on 8:00 am - 5:00 pm M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRH

SUPERVISORY PATENT EXAMINER